

CLAIMS

What is claimed is:

- 5 1. A contact-type sensor of an object, comprising a sponge, and at least one jiggle switch arranged thereunder, said jiggle switch is selected from the group consisting of membrane jiggle switches, mechanical jiggle switches, conductive plastic jiggle switches and capacitor jiggle switches.
- 10 2. The contact-type sensor of an object of claim 1, wherein said membrane jiggle switch is comprised of three layers of films, namely input film, insulating film and output film, through holes are arranged in the said insulating film which is arranged between said input film and said output film.
- 15 3. The contact-type sensor of an object of claim 2, wherein a conductive film covers each surface of the input film and output film facing said insulating film; said input film and output film can also be metal films.
- 20 4. The contact-type sensor of an object of claim 2, wherein contacts are arranged on each surface of the input film and the output film facing the insulating film at the locations corresponding to which said through holes are arranged in the insulating film.
- 25 5. The contact-type sensor of an object of claim 2, wherein the conductive film is attached to one of the surfaces of the input film and the output film facing the insulating film, contacts are arranged on the other surface of the input film and output film facing the insulating film at the locations corresponding to which said through holes are arranged in the insulating film.
- 30 6. The contact-type sensor of an object of claim 2, wherein the input film is arranged under the sponge, the underside of the input film is covered by conductive film or arranged with contacts at the locations corresponding to which the said through holes are arranged in the insulating film, two rows of spaced apart, separate, exposed printed circuit contacts are arranged on the upper side of the output film at the locations corresponding to which said through holes 6 are arranged in the insulating film.
7. The contact-type sensor of an object of claim 2, wherein one of the input film and the output film are integral with the sponge to obtain a conductive sponge.
8. The contact-type sensor of an object of claim 2, wherein one of the input film and output film are integral with the surface of the object.